SBR No. 68/22-23
DATED 09/12/2022

EE/ELE/Y/BR.No. 68/22-23

Original / Duplicate / Triplicate

CONTRACT CERTIFICATE

(For Other Works)

No. 1st and Final Bill Date ..... 20 ..... Dt. 09/12/2022

Division: Yelahanka Division
Bill Received No ..... Dated ..... Cash Book Voucher No ..... dated .....
Scheduled Docket No .....

Name of Work Upgradation of Energy efficient Illumination and ornamental poles in Ward No 02 & 04 Parks in Yelahanka Assembly Constituency

Name of Contractor and Full Address Sri.A.N.Madhusudhan (M/s Suraksha Electricals)

Work Order No:BBMP/EE/YNK.D/EPMT-05/W.O/80/2021-22, **Dated: 21-01-2022.**

Certified that the measurements were taken by me on 18/8/22 and recorded in pages 260025 to 260032
Of measurement Book No 2601/22-23 and that the work is satisfactorily executed.

Contractor

Officer-in-charge of work

Certified that the measurements were taken by me on 18/8/22 and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account II have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of an imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Sub-Division Officer

If Memorandum of Payment

1)	Total value of work done or supplies made as per account within	Bill 15298555:00
2)	Deduct amount to be held in reserve being .....percent Rs.....	
3)	Deduct amount to be held in Balance	
4)	Deduct Payment :	
	a) Amount of previous payment as in the Office Cash Book Voucher No .....Dated .....S.D No.....	
	Amount adjusted towards cash advance recovery of	
	b) Payments cost store or other materials supplied.	
	Now made recovery of amount creditable to this/other work	
	Amount paid on this bill Cheque/Cash	
5)	Balance being unpaid value of work done held in reserve	
6)	Deduct cash advance made on the office Cash Book Voucher No..... date .....less adjustments	
7)	Net amount due to or from contractor	
	Unadjusted items	
8)	Advance to contractor for materials brought to site (as detailed) within value of Governme materials supplied	

IT 1%	152986:00
LWC 1%	152986:00
CBF 0.1%	15299:00
CONST 1%	146023:00
SCNST 1%	146023:00
LR.	15621:00
Fine.	35700:00
Deduction	664638:00
Payment	14633917:00

Contractor's Signature

Received Rs ..... (in words)
By Cash and by adjustment of Payment as per memorandum.
Witnesses :
1
2
Dated ..... Signature of Contractor

(For use in the Office)

ಲೆಕ್ಕಶೀರ್ಷಿಕೆ P0375. Special Development
ರೂ: 15298555:00 ಆಯಿತು ಮಾಡಿ ಸ್ವೀಕರಿಸಿದ
ರೂ: 14633917 ಚೆಕ್ ನೀಡಬಹುದಾಗಿದೆ
ರೂ: 664638:00 ಹೊಂದಾಣಿಕೆ ಮಾಡಿದೆ

Paid by me by cheque No ..... Dated .....
Cash Rs ..... Dated .....

ಸಹಾಯಕ ಅಧೀಕ್ಷಕರು

ಕಾ.ಪಾ.ಅ.(ವಿ) ಯಲಹಂಕ ವಲಯ

Executive Engineer

Initials of Officer Making Payment

Name of Work: Upgradation of Energy efficient Illumination and ornamental poles in Ward No 02 & 04 Parks in Yelahanka Assembly Constituency

ABSTRACT

Sl No	Description of Work	Unit	As per Shedule -B			Previous Measurement		Present Measurement			Up to date	
			Qty	Rate	Amount	Qty	Amount	Qty	Rate	Amount	Qty	Amount
1	Eartwork excavation for foundation of buildings,water supply,sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches,stacking the excavated soil clear from edges of excavation with lead upto 50m. after breaking of clods complete as per specification.	Cum	112.10	332.31	37252.13			112.10	332.31	37252.13	112.10	37252.13
	Above 125%	Cum	13.64	332.31	4531.90			13.64	332.31	4531.90	13.64	4531.90
2	Provding and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications	Sqm	386.91	286.74	110944.04			386.91	286.74	110944.04	386.91	110944.04
3	Providing and laying in position plain cement concrete of nominal mix 1:4:8 using 40 mm and down size graded granite metal machine mixed,concrete laid in layers not exceeding 15cm thick well compacted,in foundation and plinth,including cost of all materials ,labour,HOM machinaries ,curing complete as per specifications.	Cum	2.90	5892.35	17087.81			2.90	5892.35	17087.81	2.90	17087.81
	Above 125%	Cum	5.48	5892.35	32304.81			5.48	5892.35	32304.81	5.48	32304.81
4	Providing T.M.T steel reinforcement for R.C.C work including straightening,cutting ,bending ,hooking,placing in position,lapping and/or welding wherever required,tieing with binding wire,anchoring to the adjoining members wherever necessary as per design (laps,hooks and wastage shall not be measured and paid) including cost of all materials ,labour ,HOM og machinaries,curing complete as per specifiactions..	Kgs	4689.26	86.69	406511.51			4689.26	86.69	406511.51	4689.26	406511.51

	Description of Work	Unit	As per Shedule -B			Previous Measurement		Present Measurement			Up to date	
5	Providing and laying in position reinforced cement concrete of Design Mix M20 with OPC @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.460 cum, with super plasticisers @ 3 liters confirming to IS 9103-1999 reafirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM curing, complete but excluding cost of reinforcement as per specifications.	Cum	91.42	6684.03	611067.41			91.42	6684.03	611067.41	91.42	61106741
6	Supply and transportation of 40W LED Post top lantern made with cast aluminium with decorative opel polycarbonate defuser with IP65 protectin etc, complete with all accessories	Nos	0.00	8912.25	0.00			0.00	8912.25	0.00	0.00	0.00
7	Fabricating, supplying and erection of ...Mtrs long hot dip Galvanized Octagonal pole with BSEN 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with door opening arrangements, including suitable boards, Bakelite sheet and MCBs as per IS specifications suitable to withstand the wind speed of 47 m/sec for .....Mtrs pole in single section and single joint welded as per IS 9595/IS 10178AWS having dimensions bottom .....mm, top....mm with 3mm thick, suitable base plate and 4Nos of long J bolts along with template and the pole shall be hot dip galvanized in single dipping with not less than 65micron as per ASTM-A123 and 153 etc., (excluding foundation) as per drawing appended.6meters - Top 70mm and bottom 130mm dia	Nos	80.00	9516.19	761294.88			80.00	9516.19	761294.88	80.00	761294.88
8	Supplying, and fixing of Hot dip Galvanized M.S.Bracket suitable for out door luminaries and mounted on Octagonal pole using necessary bolts, nuts etc., complete.Single Arm Bracket with 1500mm Standard 40/50MM dia	Nos	80.00	2214.43	177154.56			80.00	2214.43	177154.56	80.00	177154.56

Sl No	Description of Work	Unit	As per Shedule -B			Previous Measurement		Present Measurement			Up to date	
9	Supply of LED Streetlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate material, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, maximum light intensity should be between 60 degrees to 70 degrees. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/ Overload, short circuit/ miss-wiring protection. Compatible for pole mouting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with W System Power consumption. LED Efficiency>130lm/w, nominal CRI >75.	Nos	40.00	9646.20	385848.00			40.00	9646.20	385848.00	40.00	385848.00
10	Supply of LED Streetlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate material, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, maximum light intensity should be between 60 degrees to 70 degrees. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/ Overload, short circuit/ miss-wiring protection. Compatible for pole mouting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with W System Powerconsumption. LED Efficiency>130lm/w, nominal CRI >75.	Nos	80.00	7507.26	600580.80			80.00	7507.26	600580.80	80.00	600580.80
11	Supplying of 1.1 KV LT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LT cable as per IS-1554 (Part-1) or IS-7098 Part-1, Armouring strip thickness in average +5% and resistivity 14 Ohms/Kms (Max) as per IS-3975 4 core 16 sqmm	Mtrs	1008.00	157.28	158533.20			1008.00	157.28	158533.20	1008.00	158533.20

Sl No	Description of Work	Unit	As per Shedule -B			Previous Measurement		Present Measurement			Up to date	
12	Supplying of 1.1 KV LT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LT cable as per IS-1554 (Part-1) or IS-7098 Part-1, Armouring strip thickness in average +5% and resistivity 14 Ohms/Kms (Max) as per IS-3975 3.5 core 25 sqmm	Mtrs	1979.00	188.73	373496.67			1979.00	188.73	373496.67	1979.00	373496.67
13	Supplying of 1.1 KV LT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LT cable as per IS-1554 (Part-1) or IS-7098 Part-1, Armouring strip thickness in average +5% and resistivity 14 Ohms/Kms (Max) as per IS-3975 3.5 core 35 sqmm	Mtrs	375.00	235.91	88467.19			375.00	235.91	88467.19	375.00	88467.19
	Above 125%	Mtrs	183.00	235.91	43171.99			183.00	235.91	43171.99	183.00	43171.99
14	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required In existing trench/duct. 25 sqmm to 35 sqmm	Mtrs	1008.00	12.46	12555.83			1008.00	12.46	12555.83	1008.00	12555.83
15	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required In existing trench/duct. 35 sqmm to 75 sqmm	Mtrs	2537.00	16.25	41230.69			2537.00	16.25	41230.69	2537.00	41230.69
16	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc.,complete.(As per Civil SR KSRB I-2, P-7)In soil (ordinary)	Mtrs	2754.00	79.69	219455.24			2754.00	79.69	219455.24	2754.00	219455.24
17	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc.,complete.(As per Civil SR KSRB I-2, P-7)Asphalt cutting	Mtrs	192.00	118.48	22748.26			192.00	118.48	22748.26	192.00	22748.26
18	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments 1.5 sqmm	Mtrs	4575.00	21.49	98336.19			4575.00	21.49	98336.19	4575.00	98336.19
19	Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than .25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV.40mm	Mtrs	70.00	351.25	24587.33			70.00	351.25	24587.33	70.00	24587.33
20	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc.35Sqmm	Nos	8.00	366.98	2935.80			8.00	366.98	2935.80	8.00	2935.80
21	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes.25 sqmm Long Barrel	Nos	1072.00	20.97	22479.84			1072.00	20.97	22479.84	1072.00	22479.84

Sl No	Description of Work	Unit	As per Shedule -B			Previous Measurement		Present Measurement			Up to date	
22	Supplying fixing and wiring earth electrode for grounding of lifts, transformers, DG sets etc. using 40mm dia 2.9mm thick 2.5 mtr long GI pipe with GI funnel with mesh and suitable size reducer fixed on the top of the earth electrode.The funnel should be enclosed in a CC chamber of 400x400x400mm with a cast iron cover. The earth electrode shall have staggered holes of 12mm dia and the electrodeshould be covered 150mm all-round with alternate layers of salt and charcoal from the bottom of the CC chamber. The connection from the electrode is to be established through GI strip using GI bolts and nuts.	Nos	8.00	4351.28	34810.20			8.00	4351.28	34810.20	8.00	34810.10
23	Supplying and running of GI/Copper strips for grounding connections, using necessary fixing materials as required.600x600x3mm Copper plate	Nos	40.00	7234.65	289386.00			40.00	7234.65	289386.00	40.00	289386.00
24	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. flat ... with bolts, washers etc.,and painted with 2 coats of red oxide and then two coats of approved paint.40x40x6mm	Mtrs	50.00	267.37	13368.38			50.00	267.37	13368.38	50.00	13368.18
25	Fabricating supplying and mounting MS box made out SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finishedwith 7tanks treatment with powder coated paint and finally finished with approved colour etc., complete16SWG	Sqcm	280000.00	0.37	102753.00			280000.00	0.37	102753.00	280000.00	102753.00
26	Supplying and fixing Moulded Case Circuit Breaker (MCCB)over the existing wood/panel board using necessary screws,bolts, nuts, necessary phase separators, handle and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Faultas per IS-13947. (Icu = Ics)100Amps 25kA.	Nos	8.00	6710.40	53683.20			8.00	6710.40	53683.20	8.00	53683.20
27	Fixing halogen/metal halide / SVL / IL / LED floodlight fitting over existing pole / wall ceiling including clamps, bolts, nuts and wiring using suitable capacity wires.	Nos	1.00	183.49	183.49			1.00	183.49	183.49	1.00	183.49
	Above 125%	Nos	169.00	183.49	31009.39			169.00	183.49	31009.39	169.00	31009.39
28	Fixing charges of post top/ Gate/ Garden fitting /LED on the existing CI / GI or any other pipe using required size of reducer, wiring using suitable wires.	Nos	0.00	161.47	0.00			0.00	161.47	0.00	0.00	0.00
29	Supplying and running of GI/Copper strips for grounding connections, using necessary fixing materials as required.25x3mm Copper strip	Mtrs	75.00	529.49	39711.94			75.00	529.49	39711.94	75.00	39711.94
	Above 125%	Mtrs	7.50	529.49	3971.19			7.50	529.49	3971.19	7.50	3971.19

Sl No	Description of Work	Unit	As per Shedule -B			Previous Measurement		Present Measurement			Up to date	
30	Supplying & fixing of retrofit type - LED bulb.....W with OPAL acrylic diffuser comprising of LED source with CCT 6500 degree K, CRI> 70%. efficacy >80 lumen per watt,life> 25000 burning hours and Compliance to IS 10322/IEC 60598, LM 79 & LM 80. The LED are driven by HF electronicdriver integrated in the system, with PF > 0.95, power loss should < 5% of lamp wattage., short circuit & open circuit protection to be integrated in the circuit, THD less than 20%,Life as per LM 79. The operating input voltage should be between 130 to 275 volts. BIS Approved and Tested by ABL/CPRI accredited laboratory with 2 years Warranty against any manufacturing defect working under standard electrical condition 18W, 6500K	Nos	61.00	267.37	16309.42			61.00	267.37	16309.42	61.00	16309.42
31	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers.63Amps	Nos	18.00	238.01	4284.17			18.00	238.01	4284.17	18.00	4284.17
32	Supplying and fixing of Spiral Earth Electrodes as per standard technical specification as per ESCOM.	Each	133.00	514.39	68414.42			133.00	514.39	68414.42	133.00	68414.42
33	Erection of steel supports 9.0 to 10.00 mtr long such as 22.68 kg (50 lbs) Rail,27.22 kg (60 Lbs) Rail I Beam of sizes 200x100mm, 175x90 mm, 125x100mm. Fabricates poles tubular poles in pits of 1.8 mtr Depth, Aligning, Refillingwith soil and ramming as approved drawing (Releasing of LED Lights=90% of erction Charges Rs334x90%=300.6)	Each	50.00	315.18	15758.96			50.00	315.18	15758.96	50.00	15758.96
34	Fixing halogen/metal halide / SVL / IL / LED floodlight fitting over existing pole / wall ceiling including clamps, bolts, nuts and wiring using suitable capacity wires. (Releasing of LED Lights=90% of erction Charges Rs 175x90%=157.50)	Each	50.00	164.61	8230.73			50.00	164.61	8230.73	50.00	8230.73
35	Hiring of 35 tons capacity Crane for releasing and refixing of High Mast	Hour	20.00	574.58	11491.56			20.00	574.58	11491.56	20.00	11491.56

Sl No	Description of Work	Unit	As per Shedule -B			Previous Measurement		Present Measurement			Up to date	
36	Remotely control and and monitorable smart street light system by using web or mobile application .smart control system has hardware ruggedness over field issues like line cross, line short, lighting and any other irregularities in voltage. It has some features like 1.Remote lighting management.2.Precise lighting turnoff.3.Load ballancing.4.Load power regulation.5.Status tracking. It works on the basis of some of these features 1) Main Control Unit (Mother board) : Handles controlling , data handling and other communication process.2) Communication unit: GSM/GPRS quad bandwith RS232 interface wireless communication unit3) Gate Driver Unit: Firing angle controllable board for driving the thyristor 4) Switching Thyristor: SCR 110 AMPS dual thyristor modules for switching5) Embedded Firmware: Firmware to control , handle , process the data and communicate it wirelessly.6) Metal Enclosure : IP66 weather prof metal enclosure.7) Transformers: Customized step down transformers for various purposes.8) Wiring and other device assembly components.	Nos	8.00	53997.75	431982.00			8.00	53997.75	431982.00	8.00	431982.00
37	Supply and erection of 3 Mtr long Aluminium Pole with 60 watt LED Light made out of extruded alluminium 80x120mm with 3 MM thickness, with attached bent Square curvature at the top with Two nos of Light, Blue colour Strip Light should be conduted along the Pole and Square light on liner side, Grey Colour Powder Coated, strip wattage 20W, pole is mounted on base Plate of 200x200 with required 4 nos foundation Bolts suitable for cable entry hole of 60mm at the bottom of the Pole. MCB Cutting of 500mm from the bottom of the pole with 12 inches Height.as per the Drawing enclosed . Model name & Make :Square super , Emerald Lighting Solutions or any equalent	Nos	32.00	35347.03	1131105.02			32.00	35347.03	1131105.02	32.00	1131105.02
	Above 125%	Nos	8.00	35347.03	282776.26			8.00	35347.03	282776.26	8.00	282776.26

Sl No	Description of Work	Unit	As per Shedule -B			Previous Measurement		Present Measurement			Up to date	
38	Supply of 3 Mtr Powder Coated Aluminium Pole with 60W Light and strip wattage of 20W, dimension of pole 3mm gage with 80x120mm with Body Colour Grey with Diamond Shaped Curvature suspended from the top bend at 45 deg from the pole. Illumination is from the top fixed inside the Diamond shaped Curvature Strip Light is conduted along with the Pole liner with Blue Light Illumnation. Square base Plate in welded at the bottom of the pole oif 200x200 with required 4 nos foundation Bolts suitable for cable entry hole of 60mm at the bottom of the Pole. MCB Cutting of 500mm from the bottom of the pole with 12 inches Height. Model : Diamond Cargo Make : emerald Lighting Solutions	Nos	31.00	45446.18	1408831.70			31.00	45446.18	1408831.70	31.00	140883170
	Above 125%	Nos	1.00	45446.18	45446.18			1.00	45446.18	45446.18	1.00	45446.18
39	Fabricating, Supplying and errection of decorative bent type Conical Street light pole with hot dip Galvanized with BSEN 10025 grade S 355 JO Steel plate for shaft, IS 2062 for base plate with door opening arrangements, including suitable boards, Bakelite sheet for MCBs as per IS Specifications.suitable to withstand the wind speed. The total height of the pole 9 mtrs. The pole should have 2 nos of pole esthetically bent either side. The dimensions of the pole bottom 178 mm,at 9 mtrs height 70 mm 3mm thick and one number of 3 mtr height perforated pole having colour changing LED Fixture, inside as suitable to the picture. The base plate size of 350mm x 350mm x 18 mm and the pole shall be galvanized with not less than 65 micron etc and finally finished with paint as required with two different colour. (With out foundation). As per the enclosed pictures and as per IS standards. As per attached Drawing	Nos	61.00	96986.25	5916161.25			61.00	96986.25	5916161.25	61.00	5916161.25
40	Laying of UG Cables by Trenches technology by adopting horizontal boring & Drawing of Cable including preparation at site with HDPE Pipe i) Normal soil 5/6" bore size	mtrs	87.00	889.13	77354.14			87.00	889.13	77354.14	87.00	77354.14
E1	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete.	Nos	674.00	453.67	305774.60			674.00	453.67	305774.60	674.00	305774.60

Sl No	Description of Work	Unit	As per Shedule -B			Previous Measurement		Present Measurement			Up to date	
E2	Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8	Mtr	640.50	88.96	56975.81			640.50	88.96	56975.81	640.50	56975.81
	Total				**14602349.06**					**14602349.06**		**14602349.06**
	Excluding of Item 30,37,38&39 GST 12%				**696206.31**					**696206.31**		**696206.31**
	Grand Total				**15298555.37**					**15298555.37**		**15298555.37**

CERTIFICATE

1 Certified that the work done is satisfactorily.

2 There is no departmental issues by BBMP

For M/s Suraksha Electric

Contractor

Proprietor

Consultant

Asst. Engineer

Asst. Executive Engineer,